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THE WISTAR INSTITUTE

THIRTY-SIXTH STREET AT SPRUCE
PHILADELPHIA 4, PA.

HILARY KOPROWSKI, M.D.
DIRECTOR

PHONE: Baring 2-6700
CABLE ADDRESS: WISTARINST

October 28, 1958

Dr. Joshua Lederberg
Department of Medical Genetics
The University of Wisconsin
School of Medicine
Madison 6, Wisconsin

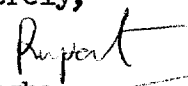
Dear Joshua:

I was delighted to hear from you and learn of your impending move to Stamford and of your intention to enter the tolerance field. I am sending you, under separate cover, copies of the few reprints of our papers which I still have but have to apologize in advance that we no longer have any reprints of our major work on tolerance left.

I was extremely interested to read your enclosed speculation which I found very stimulating. I, myself, go along with you in the opinion that it seems necessary to maintain the presence of antigen in order to maintain a state of acquired tolerance. I think that Richard Smith's recent paper in the Journal of Experimental Medicine dealing mainly with tolerance in rabbits to bovine serum albumin makes this particularly clear. So far as tolerance of homologous cells is concerned, the situation is still, to some extent, unresolved although experiments I have been carrying out here certainly show that abolition of cellular chimerism in an animal for at least 50 days does not necessarily result in the abolition of a previous state of immunological tolerance. I must confess that I ^{personally} ~~presently~~ am not particularly enamored of Burnet's clonal hypothesis and have experiments in progress, or at the planning stage, designed to try and disprove it; but it would be too premature to discuss them at this stage.

With best wishes to you in your new fields of endeavor.

Yours sincerely,


R.E. Billingham

REB:fl